International application No.
PCT/JP2004/003694

			70120047003034			
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl7 G11B20/14, H03M7/14, H04L25/49						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SE		•				
Int.Cl7	entation searched (classification system followed by classification system	L4, H04L25/49	·			
	earched other than minimum documentation to the exte	nt that such documents are includ	ed in the fields searched			
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004						
Electronic data b	ase consulted during the international search (name of o	lata base and, where practicable, s	earch terms used)			
C. DOCUMEN	TS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	propriate, of the relevant passage	l•			
X	JP 1-319178 A (Sony Corp.),		8,12-14,20			
	25 December, 1989 (25.12.89), Page 7, lower right column, l (Family: none)	ines 2 to 13	·			
. А	JP 10-144007 A (Matsushita E Co., Ltd.), 29 May, 1998 (29.05.98), Par. Nos. [0074] to [0084] & EP 0822555 A2 & US	lectric Industrial 5898394 A	1-7,18-19			
. A	JP 9-246980 A (Sanyo Electri 19 September, 1997 (19.09.97) Fig. 3 (Family: none)		9-11			
		· · · · · · · · · · · · · · · · · · ·				
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.				
"A" document d to be of part	"A" document defining the general state of the art which is not considered to be of particular relevance date and not in conflict with the principle or theory under		1 -			
filing date	cation or patent but published on or after the international	"X" document of particular releva considered novel or cannot step when the document is tal	doe; the claimed invention cannot be be considered to involve an inventive on alone			
cited to est	thich may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other on (as specified)	"Y" document of particular releva	nce; the claimed invention cannot be eventive step when the document is			
"O" document re	aferring to an oral disclosure, use, exhibition or other means		ther such documents, such combination			
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same				
Date of the actual completion of the international search 11 June, 2004 (11.06.04)		Date of mailing of the internation 29 June, 2004	nal search report (29.06.04)			
Name and mailing address of the ISA/ Authorized officer						
Japanese Patent Office						
Facrimile No. Telephone No.						

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PCT/JP2004/003694

·	<u> </u>	PCT/JP20	004/003694
	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant p	_	Relevant to claim N
A	JP 2000-134101 A (Sanyo Electric Co., Ltd.) 12 May, 2000 (12.05.00), Full text; all drawings (Family: none)	,	1-21
P, A	JP 2003-168217 A (Sony Corp.), 13 June, 2003 (13.06.03), Par. Nos. [0040] to [0044] (Family: none)	·	15-17,21
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DETERACT	0 (continuation of second sheet) (January 2004)		

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Bax No. II Observations where certain claims were found unsearchable (Continuation of item	2 of first sheef)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for	r the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	•
Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed restent that no meaningful international search can be carried out, specifically:	equirements to such án
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third	sentences of Rule 6.4(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sl	ect) .
This International Searching Authority found multiple inventions in this international application, as fold the technical feature common to claims 1-21 relates to select modulation code from a plurality of candidate modulation code the DSV or the DC component. However, this technical feature is not novel since it is discarded in the discardingly, this technical feature makes no contributing art and cannot be a special technical feature within the metals.2, second sentence.	so as to suppress losed in document on over the prior
(Continued to extra sheet)	
I. X As all required additional search fees were timely paid by the applicant, this international search reclaims.	port covers all searchable
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority di any additional fee.	not invite payment of
3. As only some of the required additional search fees were timely paid by the applicant, this internat only those claims for which fees were paid, specifically claims Nos.:	ional search report covers
4. No required additional search fees were timely paid by the applicant. Consequently, this inte	mational search report is
restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest The additional search fees were accompanied by the applicant's pro No protest accompanied the payment of additional search fees.	test.
	•

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Continuation of Box No.III of continuation of first sheet (2)

Since there exists no other common feature which can be considered as a special technical feature within the meaning of PCT Rule 13.2, second sentence, no technical relationship within the meaning of PCT Rule 13 between the different inventions can be seen.

Document 1: JP 64-005229 A (NEC Home Electronics Ltd.), 10 January, 1989 (10.01.89)

Form PCT/ISA/210 (extra sheet) (January 2004)